DSC-F828

Cyber-shot®
Digital Still Camera

FEATURES

2/3" 8.0 Megapixel Super HAD™ CCD

Super HAD (Hole Accumulation Diode) CCDs provide excellent image quality by allowing more light to pass to each pixel, increasing sensitivity and reducing noise.

4 Color System

Sony's Red/Green/Blue + Emerald (RGB+E) system captures color more like human color perception for more accurate and lifelike images.

Carl Zeiss® Vario Sonnar® T* Lens

Famous for sharpness and color accuracy, the lens features 12 elements in 9 groups including 3 aspheric elements. Special T* coatings greatly reduce internal reflections for more natural and vibrant images.

7X Optical Zoom Lens

With a focal length from 28mm wide angle to 200mm telephoto (35mm equivalent), the mechanically coupled 7X zoom lens covers an extensive range of shooting conditions—without the need for additional lenses. Selectable Precision Digital (2X/14X total) or Smart Zoom™ feature (35X at VGA size) extend the flexibility. The fast f2.0~2.8 aperture enhances available light and short depth of field flexibility.

Real Imaging Processor

Sony's Real Imaging Processor CPU converts RGB+E input to ideal RGB, and manages image control and power consumption. Because it's optimized for Digital Camera functions, it provides outstanding image quality, extraordinary speed and improved battery life.

Dual Media Compatibility

The DSC-F828 is capable of using not only Memory Stick® Media and Memory Stick PRO™ Media when capturing images, but also CompactFlash® Type I/II as well as Microdrive media. This offers added flexibility and storage options when taking pictures.

MPEG Movie VX Fine Modes

Captures VGA (640 x 480) high frame rate (up to 30 frames per second in Fine Mode) audio/video clips with length limited only by the capacity of the media. Video mail mode captures smaller file sizes suitable for email.

NightShot® Infrared System and NightFraming System

Capture infrared digital images in total darkness at up to 10 feet away. By illuminating the subject with infrared light and removing the CCD's IR cut filter, detailed images can be captured even in total darkness. For capturing beautiful color images in low or no light, NightFraming illuminates the subject with the NightShot® Infrared System for proper framing, focuses with the Hologram AF™ feature and illuminates the scene with the flash.

Hologram AF™ Illuminator

Projecting a Class 1 laser pattern Hologram AF illuminator reads the contrast between the pattern's edge and the subject for precise focuses, even in low or no light situations.

Manual Exposure Controls

Flexible Exposure control is provided with Aperture Priority (f2.0–8.0), Shutter Priority (30sec–1/3200 sec) and Manual Exposure modes. Exposure Value Compensation (EV) and Flash output level control allow for even more control over your images.

Manual Zoom and Manual Focus Rings

Dual independent Zoom and Focus rings provide precise and detailed control over the amount of zoom and the overall focus of the image with just a turn of the rings. Fast intuitive framing when zooming, and finely detailed focusing is easy with the natural "feel" of the rings.

Eye-Level & 1.8" LCD Monitor

For accurate framing; and following fast action, both the 235K pixel eye-level finder and the 1.8" 134K pixel LCD provide through-the-lens viewing and menu display.

5 Area Multi-Point Auto Focus

By evaluating 5 separate focus areas of the frame, Sony's Multi-Point AF system can intelligently focus on the subject and avoid mistakenly focusing on the background. In addition, you can manually select a point, or position a point anywhere in the frame with Flexible Spot AF.

Continuous Auto Focus

To maintain accurate focus lock with fast moving subjects, Continuous AF keeps focusing from the time the camera is turned on until the moment of exposure.

Slow Shutter Noise Reduction

During long exposures, those longer than 1/25 second, the camera captures two exposures with each press of the shutter button. The first exposure captures the scene, and the second exposure captures the CCD noise pattern with a dark frame exposure. By subtracting the two, even long exposures can be clear.

RAW Mode & Data Converter

Capture raw data directly from the CCD before any in-camera processing, while a separate JPEG is stored for viewing convenience. Sony's RAW converter software provides extensive control of gamma, white balance, color and sharpness for fine tuning the image.

Advanced Accessory Shoe and ACC Terminal

Connect Sony's HVL-F32X flash or remote controls with the ACC Terminal, or synchronize other flash units or studio lighting with the Hot Shoe Terminal.

▶ STEP-UP FEATURE

ADDITIONAL FEATURES

3 Shot Auto Exposure Bracketing
3:2 Aspect Ratio Mode
7 Shot Burst Mode
14-Bit DXP A/D Conversion
Adjustable Color Saturation/ Contrast
AE Lock
Clear Color/Clear Luminance NR
Flash White Balance
Flexible Spot Focus

Jog Dial® Navigation
Live Histogram Display
MPEG1 Cue, Review and Divide
Multi-Burst Mode
Multi-Pattern Measuring
Pre-Flash Metering
Program Shift
Rechargeable InfoLithium® Battery
Scene Selection Mode
Video Output

SPECIFICATIONS

Imaging Device: 2/3" 8.0 Megapixel Effective Super HAD™ CCD
Recording Media: Memory Stick® Media, Memory Stick PRO™ Media, Microdrive and CompactFlash® Type I/II Media
Zoom: 7X Optical, 2X Digital, 0 - 5X Smart Zoom™ Feature*, Up to 35X Total Zoom*
Filter Diameter: 58mm
Focal Length: 7.1 – 51mm
35mm Equivalent: 28 – 200mm
Aperture: f2.0 – 2.8
Focus: 5 Area Multi-Point AF with Manual Select
Minimum/Macro Focus Distance: 19.7" (50 cm)/¾" (2cm)
Aperture Range: 13 Step, f2.0 – f8.0
Shutter Speed: Auto (1/8–1/3200 sec), Program Auto (1–1/3200 sec) Shutter Priority (30–1/2000), Manual (30–1/3200)
Manual Exposure: ±2.0 EV, 1/3 EV Step
Color LCD: 1.8" 134K Pixels Low Temperature Polysilicon TFT
Eye-Level Finder: Hi-Speed TTL 0.44" 235K Pixels Precision TFT LCD
Flash Modes: Auto/Forced On/Forced Off/Slow Synchro
Red-Eye Reduction: On/Off
Flash Effective Range: 19 ¾" - 14' 9 ¾" (0.5m - 4.5m)
White Balance: Auto, Daylight, Cloudy, Fluorescent, Incandescent, Flash, One-Push Manual

Picture Effects: Solarize, Sepia, Negative Art
ISO: Auto, 64, 100, 200, 400, 800
Scene Modes: Twilight, Twilight Portrait, Landscape, Portrait
Self-Timer: Yes, 10 Seconds
Video Output: Yes, NTSC/PAL Selectable
Still Image Modes: JPEG (Fine/Standard), TIFF, RAW, Burst, Auto Bracketing, Email, Voice Memo
MPEG Movie Mode: MPEG VX (640 x 480 Standard, 16 fps/Fine, 30fps) with Audio, Video Mail (160 x 112, 8fps) with Audio
Microphone/Speaker: Yes/Yes
USB Terminal: Yes, Supports USB 2.0[2] High Speed
Memory Stick PRO™ Media Compatibility[1]: Tested to support up to 1GB media capacity; does not support Access Control security function
Battery Type/Capacity: InfoLithium® NP-FM50 1180mAH Rated
Supplied Software: Pixela ImageMixer™ Software for Sony v1.5, RAW Converter Software, USB Driver
OS Compatibility: Microsoft® Windows® 98, 98SE, 2000, XP Home and Pro, Me,; Macintosh® 9.1/ 9.2/ X (10.0, 10.1, 10.2)**
Supplied Accessories: NP-FM50 InfoLithium® Rechargeable Battery, AC-L15 AC Adapter/In-Camera Charger, A/V and USB Cables, Lens Hood, Lens Cap with Strap, Shoulder Strap, Software CD-ROM
Dimensions: 5 ⁵⁄₁₆" x 3 ⁹⁄₁₆" x 6 ³⁄₁₆" (134.4 x 91.1 x 156.7mm)
Weight: 2.12 lbs (955g) with accessories

OPTIONAL ACCESSORIES

MSA-32A, MSA-64A, MSA-128A Memory Stick® Media
MSX-256, MSX-512, MSX-1G Memory Stick PRO™ Media
MSA-128S2 Memory Stick® Media with Select Function (256MB total)
MSH-M64A, MSH-M128A Memory Stick Duo™ Media
MSX-M256A, MSX-M512A Memory Stick PRO Duo™ Media
MSAC-MCF1N Memory Stick Duo™ Media to CompactFlash® Type I/II Adapter

MSAC-US30 Memory Stick PRO™ Media USB Adapter
MSAC-US70 Memory Stick USB Mouse/Adapter
HVL-F32X Advanced Accessory Shoe Flash
LCS-FHA Carrying Case
NP-FM50 Rechargeable InfoLithium® Battery
BC-TRM Travel Charger
ACC-CFM Accessory Kit (LCS-FHA, NP-FM50, VF-58MC Multi-Coat Protector Filter)
HVL-IRM NightShot® Infrared Emitter
VCT-D680RM Remote Control

Recording Capacities

		Memory Stick® Media				Memory Stick PRO™ Media			Microdrive
	RAW Fine/Standard	**16MB**	**32MB**	**64MB**	**128MB**	**256MB**	**512MG**	**1GB**	**1GB**
	3264 x 2448 (8MP)	0/0	1/1	3/3	6/6	10/11	22/24	45/49	50/55
	3264 x 2176 7MP (3:2)	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
	2592 x 1944 (5MP)	0/0	1/1	3/3	6/6	11/12	23/25	48/51	54/57
h = hours	2048 x 1536 (3MP)	0/0	1/1	3/3	6/7	12/12	25/26	51/53	56/58
m = minutes	1280 x 960 (1MP)	0/0	1/1	3/3	7/7	12/13	26/26	53/54	59/60
s = seconds	640 x 480 (VGA)	0/0	1/1	3/3	7/7	13/13	27/27	55/55	61/61
	JPEG Fine/Standard								
	3264 x 2448 (8MP)	4/7	8/15	16/30	32/60	59/109	121/223	247/456	273/505
	3264 x 2176 7MP (3:2)	4/7	8/15	16/30	32/60	59/109	121/223	247/456	273/505
	2592 x 1944 (5MP)	6/11	12/23	25/48	51/96	92/174	188/354	384/723	426/801
	2048 x 1536 (3MP)	10/18	20/37	41/74	82/149	148/264	302/537	617/1097	684/1217
	1280 x 960 (1MP)	24/46	50/93	101/187	202/376	357/649	726/1320	1482/2694	1643/2988
	640 x 480 (VGA)	97/243	196/491	394/985	790/1975	1428/3571	2904/7261	5928/14821	6573/16434
MPEG MOVIE VX Fine	**MPEG Movie VX Fine** 640 x 480 (30 fps)	NA	NA	NA	NA	2 m 57 s	6 m 2 s	12 m 20 s	13 m 41 s
	MPEG Movie VX Standard 640 x 480 (16.6 fps)	42 s	1 m 27 s	2 m 56 s	5 m 54 s	10 m 42 s	21 m 47 s	44 m 27 s	49 m 13 s
	Video Mail (160 x 112)	11 m 12 s	22 m 42 s	45 m 39 s	1 h 31 m 33 s	2 h 51 m 21 s	5 h 47 m 5 s	11 h 44 m 22 s	12 h 42 m 6 s

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[1] Available storage capacity of Memory Stick and Memory Stick PRO media may vary. A portion of the memory is used for data management functions. Actual available memory in MBs is: 16=15, 32=30, 64=61, 128=123, 256=220, 512=460, 1GB=940MB
[2] Not all products with USB connector may communicate with each other due to chipset variations.
* Depending upon resolution.
** Supplied RAW Software not compatible with Macintosh